RDT&E BUDGET ITEM .	IUSTIFIC	USTIFICATION SHEET (R-2 Exhibit)							DATE February 2000				
BUDGET ACTIVITY 07 - Operational System Development	PE NUMBER AND TITLE PROJECT 0303110F Defense Satellite Communications System 672638												
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost				
672638 Defense Satellite Communications Sys	10,405	5,015	7,328	4,069	2,153	1,259	1,352	0	626,91				
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0					

Defense Satellite Communications System (DSCS) is the backbone of the Government's satellite communications system, providing both secure voice and high data rate transmissions in the Super High Frequency band. DSCS provides unique and vital national security communications for global command and control, crisis management, intelligence and early warning data relay, treaty monitoring and surveillance information, and diplomatic traffic. The communications relayed through DSCS support the National Command Authorities, Defense Information System Network, Diplomatic Telecommunications Service, White House Communications Agency, Air Force Satellite Control Network, and ground mobile forces of all services.

The DSCS Service Life Enhancement Program (SLEP) includes additional modifications that increase the last four satellites capacity to tactical users by more than 200%, and implements the DoD Space Architect's recommendation.

The last two DSCS III satellites will launch on the Evolved Expendable Launch Vehicle (EELV) and will require DSCS launch vehicle interface modifications and additional launch loads analyses.

(U) <u>FY 1999 (\$ in Thousands)</u>

(0)	<u>1 1 1/// (ψ III 1 III Ous</u>	ands)
(U)	\$1,317	System Program Office Operations
		- Contractor Support
		- Mission Support
(U)	\$1,592	Basic DSCS Program
		- Pay performance incentives for development satellites still on orbit and operational
		- Conduct programmatic tradeoffs and analyses
(U)	\$7,316	Continue DSCS/EELV (Evolved Expendable Launch Vehicle) integration kit development, transitioning the last two satellites to EELV
(U)	\$180	Continue SLEP (Service Life Enhancement Program) Modification
(U)	\$10,405	Total

Project 672638 Page 1 of 6 Pages Exhibit R-2 (PE 0303110F)

	RDT	&E BUDGET ITEM JUSTIFICA	ATION SHEET (R-2 Exhib	it)	DATE Febru i	ary 2000			
	GET ACTIVITY		PE NUMBER AND TITLE		•	PROJECT			
07 -	Operational Sy	stem Development	0303110F Defense S	Satellite Comm	nunications Sys	tem 672638			
(U)	A. Mission Descrip	tion Continued							
(U)	FY 2000 (\$ in Thou								
(U)	\$1,210	System Program Office Operations							
		Contractor SupportMission Support							
(U)	\$553	Basic DSCS Program							
	- Pay performance incentives for development satellites still on orbit and operational								
	- Conduct programmatic tradeoffs and analyses								
` ′	 (U) \$100 Finish SLEP Modification (U) \$3,152 Continue DSCS/EELV integration kit development, transitioning the last two satellites to EELV 								
(U) (U)	\$3,152 \$5,015	Total	pment, transitioning the last two satellit	es to EEL v					
(U) (U)	FY 2001 (\$ in Thou \$1,653	System Program Office Operations							
	Ψ1,033	- Contractor Support							
		- Mission Support							
(U)	\$315	Basic DSCS Program							
		 Pay performance incentives for developme Conduct programmatic tradeoffs and analy 	-						
(U)	\$5,360	Continue DSCS/EELV integration kit develo		es to EELV					
(U)	\$7,328	Total	r,						
(U)	B. Budget Activity	Justification							
		Budget Activity 7, Operational System Developr	ment, since DSCS is a fully operational	satellite constellation	n with replenishment	satellites awaiting			
	launch, and associat	ed support systems.							
(U)	C. Program Chang	ge Summary (\$ in Thousands)							
			<u>FY 1999</u>	FY 2000	FY 2001	Total Cost			
(U) (U)	Previous President's Appropriated Value	Budget (FY 2000 PBR)	14,003 14,141	8,985 5,485	8,593	645,948			
(U)	Adjustments to App		14,141	J, 1 0J					
	a. Congressional/Ge	=	-138	-7					
Р	roject 672638		Page 2 of 6 Pages		Exhibit R-2	(PE 0303110F)			

	RDT&E BUD	GET ITE	M JUSTII	FICATION	SHEET	(R-2 Exh	ibit)	DA	February	2000
•	GET ACTIVITY Operational System De	velopmen	t		PE NUMBER 0303110		e Satellite C	ommunic	ations System	PROJECT
(U)	C. Program Change Summary	y (\$ in Thousa	nds) Continu	<u>ed</u>						
	b. Small Business Innovative Ro					<u>FY 1999</u> -587	FY 2000	<u>FY</u>	2001	Total Cost
	c. Omnibus or Other Above Thrd. Below Threshold Reprogram	eshold Reprog	ram			-2,953	-28			
	e. Rescissions					-2,753	-435			
	f. Other									
(U) (U)	Adjustments to Budget Years Si Current Budget Submit/FY 200		PBR			10,405	5,015		,265 7,328	626,915
	\$2895K in FY1999 and \$1265K RDT&E funding beyond FY04 B8 launch scheduled for Jul 99	was transferred slipped to Jan (to the O&M of the O&M of the O	appropriation f	or FY05 throu	-				
(U)	D. Other Program Funding Su	mmary (\$ in 7 FY 1999	Thousands) FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Cost to	Total Cost
		<u>F1 1999</u> <u>Actual</u>	Estimate	Estimate	Estimate	Estimate	Estimate	Estimate	<u>Complete</u>	<u>Total Cost</u>
(U)	AF RDT&E								<u>*</u>	
(U)	AF Wideband 3600, PE 63854F, BPAC 836780 (CCS-C)	0	0	11,500	13,300	24,400	46,600	25,900	0	121,700
` ′	Other APPN									
(U)	AF Wideband 3080 Procurement (CCS-C), PE 33600F	0	0	4,852	5,411	5,503	8,115	2,209	0	26,090
(U)	Missile Procurement, Budget Activity 5, Space and Other Support, Line Item P-27	27,573	30,425	22,770	26,841	22,804	11,819	12,091	0	1,590,741
(U)	E. Acquisition Strategy All satellites have been acquired	and four satell	ites remain to	launch. Enhan	cements to sat	ellites not laun	iched will be acc	omplished thi	ough sole source co	ntract awards.
P	roject 672638			Pa	ge 3 of 6 Pages	S			Exhibit R-2 (PE	0303110F)

RDT&E BUDGET ITEM JUSTIFICATION	ION	N SHEET (I	R-2 Ex	hibit)			DAT		bruary 2	2000	
BUDGET ACTIVITY 07 - Operational System Development		PE NUMBER A 0303110F		se Sat	ellite (Commi	unicat	tions	System	PROJ 672	
(U) F. Schedule Profile	1	FY 1999 2 3	4	se Sat	FY 2 2 *		4 X X	1	FY 20 2		4
Project 672638	Pag	ge 4 of 6 Pages						Exhibit	t R-2 (PE	03031	10F)

	RDT&E PRO	GRAM ELE	MENT/P	ROJECT C	OST BI	REAKDO	WN (R-3)		DATE F (ebruary 2	2000
	SET ACTIVITY Operational Systen	n Developme	nt			ER AND TITLE 10F Defens	se Satellit	e Commu	nications	System	PROJECT 672638
(U)	A. Project Cost Breakdov	vn (\$ in Thousan	<u>ds</u>)								
(U)	System Program Office Op	arations						<u>1999</u> .317	<u>FY 200</u> 1,21		FY 2001 1,653
(U)	Basic DSCS Program	erations						,517 ,592	1,21		315
(U)	Evolved Expendable Laund	ch Vehicle Integra	tion				·	316	3,15		5,360
(U)	Service Life Enhancement	_						180	10		0,300
(U)	Total	1 Togram Wodine	ations					405	5,01		7,328
` ´	B. Budget Acquisition His	story and Plannir	ng Informatio	on (\$ in Thousan	ds)		,		-,		,,,,,
	Performing Organization	-									
(-)	Contractor or	Contract									
	Government	Method/Type	Award or	<u>Performing</u>	Project						
	Performing	or Funding	Obligation	Activity	Office	Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Activity	<u>Vehicle</u>	<u>Date</u>	<u>EAC</u>	<u>EAC</u>	to FY 1999	FY 1999	FY 2000	FY 2001	Complete	Program
	Product Development Orga	nizations									
	Lockheed Martin	CPAF/AF	Oct 84/Mar 96	437,500	437,500	434,259	180	100		0	434,539
	Miscellaneous	CPAF	Various	N/A	N/A	132,773	7,316	3,152	5,450	3,284	151,975
	Support and Management (<u>Organizations</u>									
	Aerospace Corp	PO	Various	N/A	N/A	12,900				0	12,900
	Miscellaneous	Various	Various	N/A	N/A	15,402	2,909	1,763	1,878	5,549	27,501
	Test and Evaluation Organi	zations									
	None										
(U)	Government Furnished P	roperty:									
		Contract									
		Method/Type	Award or								
	<u>Item</u>	or Funding	Obligation	<u>Delivery</u>		Total Prior	Budget	Budget	Budget	Budget to	<u>Total</u>
	Description	<u>Vehicle</u>	<u>Date</u>	<u>Date</u>		to FY 1999	FY 1999	FY 2000	FY 2001	Complete	<u>Program</u>
	<u>Product Development Prop</u> None	erty									
_											· · · · · · · · · · · · · · · · · · ·
Р	roject 672638			Pag	ge 5 of 6 Pag	ges			Exhib	it R-3 (PE ()303110F)

RDT&E PROGRAM ELEMENT/PROJECT COST BREAKDOWN (R-3) February 200									
DIGET ACTIVITY	PE NUMBER AND TITLE	0-1-1111-0-1		0	PROJECT				
7 - Operational System Development	0303110F Defense	Satellite Col	mmunications	System	6/2638				
Government Furnished Property Continued:									
Support and Management Property									
None <u>Test and Evaluation Property</u>									
None									
Tyone	Total Prior	Budget Bu	ıdget Budget	Budget to	To				
Subtotals		•	2000 FY 2001	Complete					
Subtotal Product Development	567,032	7,496 3	,252 5,450	3,284	586,5				
Subtotal Support and Management	28,302	2,909 1	,763 1,878	5,549	40,4				
Subtotal Test and Evaluation									
Total Project	595,334	10,405 5	,015 7,328	8,833	626,9				
Project 672638	Page 6 of 6 Pages		Evhi	bit R-3 (PE ()3 <u>0</u> 3110F				